

CLAIMS

1. A pet drinking fountain comprising
a base and a water supply tank having a closed top disposed on the base and
5 extending upwardly therefrom,
a water collection area in the base disposed beneath the tank,
a channel in the base surrounding the bottom portion of the tank,
a water pump disposed in the collection area and connected to a duct for directing
water in the area to the upper portion of the tank for causing water from the duct to spill
10 down the outer surface of the tank and into the channel,
a discharge passage in the lower portion of the tank communicating with the base
for enabling water in the tank to flow to the collection area of the base when the water in
the base falls below a predetermined level,
and a drinking container in communication with the channel and the collection
15 area from which pets may drink water directed to it from the channel.
2. A pet drinking fountain as described in claim 1 wherein a filter is
mounted in the collection area and filters water in the base before it is drawn into the
pump.
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3. A pet drinking fountain as described in claim 2 wherein the duct extends
from the pump upwardly through the tank to the outer surface of the upper portion
thereof.
- 25 4. A pet drinking fountain as described in claim 3 wherein a portion of the
water discharged at the top of the duct flows directly into the drinking container.
5. A pet drinking fountain as described in claim 1 wherein the pump is
continuously driven by an electric motor.

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6. A pet drinking fountain as described in claim 1 wherein the tank is dome-shaped and has a smooth outer surface allowing the water to flow smoothly down toward the base.

5 7. A pet drinking fountain as described in claim 1 wherein the drinking container is disposed to the side of the tank.

8. A pet drinking fountain as described in claim 1 wherein a food dish is connected to the base.

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9. A pet drinking fountain as described in claim 8 wherein the food dish is adjacent the drinking container.

10. A pet drinking fountain as described in claim 1 wherein access is
15 provided for the animal to the surface of the tank enabling the animal to lap water flowing down the surface thereof or in the drinking container.

11. A device for providing drinking water to pets comprising,
a base having a tank support and a drinking bowl,
20 a water chamber in the base having an inlet from the bowl for enabling water in the bowl to pass into the chamber,
a closed tank disposed on the support and a duct extending from the chamber toward the top of the outer surface of the tank,
a pump in the base connected to the duct for pumping water from the chamber
25 through the duct and discharging the water onto the exterior of the tank,
a gutter about the lower portion of the tank for collecting water flowing down the exterior thereof and directing it into the bowl,
a passage in the tank communicating with the chamber and a valve for opening and closing the passage,
30 means connected to the valve for opening the passage when the tank is on the base,

and a sleeve defining the passage and extending into the chamber with the lower portion of the sleeve positioned to be fully submerged in water in the chamber for preventing the flow of water from the tank into the chamber when said end is fully submerged and allowing water to flow from the tank to the chamber when a portion of
5 the lower end of the sleeve is above the surface of the water in the chamber enabling air to flow into the tank.

12. A device for providing drinking water to pets comprising,
a bowl for receiving water and from which pets may drink,
10 a water circulation system including a water chamber separate from the bowl and means enabling water to flow from the bowl to the chamber,
a reserve water tank for supplying additional water to the system when the water level falls below an established level in the chamber,
and pump means in the system for discharging water from the chamber onto the
15 surface of the tank, said means including the surface for directing water from the surface into the bowl.

13. A device for providing drinking water to pets as described in claim 12 wherein the tank includes a dome and a removable bottom cover for enabling the dome
20 to be filled when the dome is reversed and the cover removed.

14. A device for providing drinking water to pets as described in claim 13 wherein a handle is connected to the dome for lifting the dome.

25 15. A device for providing drinking water to pets as described in claim 14 wherein the handle provides a support for the dome when the dome is inverted.

16. A device for providing drinking water to pets as described in claim 13 wherein the tank includes valve means for enabling water to flow from the tank to the
30 chamber,

means responsive to positioning the tank in the system for opening the valve means,

and means for controlling pressure in the tank for preventing water in the tank flowing out the valve means to the chamber when the valve means is open.

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17. A device for providing drinking water to pets as described in claim 16 wherein the pump means is in continuous operation when the tank is in the system.

18. A device for providing drinking water to pets as described in claim 11 wherein the duct extends through the tank.

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19. A device for providing drinking water to pets as described in claim 12 wherein the circulation system includes a duct connected to the pump and extending through the water tank for carrying water from the chamber to the surface of the tank.

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20. A method of providing moving aerated drinking water to pets comprising the steps of,

providing a tank having a downwardly sloping external surface with a duct extending upwardly through the interior of the tank,

20 providing a trough below the top of the tank and a water chamber in communication with trough,

providing a pump for pumping water from the chamber through the duct onto the tank external surface enabling pets to lap water flow on said surface,

providing water in the tank,

25 and discharging water from the tank into the chamber when water in the chamber falls below a pre-established level.

21. The method of claim 19 further providing a drinking bowl interposed in the flow of water between the tank surface and the chamber from which pets can drink water as an alternative from lapping water from the tank surface.

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22. A pet drinking fountain comprising,
a base, a well in the base for collecting water, a water tank on the base providing
a reservoir of water for the fountain, said tank having a dome shaped top and a
detachable bottom cover,
5 a passage in the bottom cover providing communication between the interior of
the tank and the well and a valve associated with the passage for closing it, the interior of
the tank being closed to the ambient pressure when the water in the well closes the
passage,
an actuator in the base causing the valve to remain open when the tank is placed
10 on the base, said valve allowing ambient pressure to enter the tank when the water falls
below a prescribed level to open the passage thereby causing water in the tank to flow
into the well until the water closes the passage,
a duct extending through the tank from the well to the upper external surface of
the dome and a pump for directing water in the well upwardly through the duct causing
15 the water to spill onto the dome surface from which pets can lap water flowing down the
dome surface,
a channel disposed adjacent the lower portion of the dome for collecting water
that flows down the surface of the dome,
a water dish disposed adjacent the channel into which the channel directs water it
20 collects from the surface of the dome, said dish providing a source of drinking water for
pets,
and second passage connecting the dish to the well enabling water to flow into
the well when the water in the dish exceeds a prescribed height.

23. A pet drinking fountain as described in claim 22 wherein a food dish is
connected to the base.

24. A water reservoir for a pet drinking fountain comprising,
a dome-shaped top open at the bottom and bottom cover detachably secured to
30 the top and together forming a closed chamber, said chamber being filled with water by
removing the bottom cover and inverting the top,

a duct as an integral part of the top extending downwardly through an opening in the bottom cover,

a retainer operatively associated with the duct for detachably holding the top and bottom cover together,

5 at least one seal engaging both the top and bottom cover,
and an extractor for pushing the top and bottom cover apart to break the seal.

25. A water reservoir for a pet drinking fountain as described in claim 24 wherein,

10 a seal engages the duct and opening and another seal engages the peripheries of the top and bottom cover.

26. A water reservoir for a pet drinking fountain comprising,
a dome-shaped top open at the bottom and bottom cover detachably secured to
15 the top and together forming a closed chamber, said chamber being filled with water by removing the bottom cover and inverting the top,

a duct as an integral part of the top extending downwardly through an opening in the bottom cover,

20 a retainer operatively associated with the duct for detachably holding the top and bottom cover together,

and a handle connected to the top for carrying the dome and bottom cover and providing a stand for the top when the top is inverted.

27. A pet drinking fountain as described in claim 22 wherein the channel is
25 connected to the base.

28. A pet drinking fountain as described in claim 22 wherein the channel is pitched causing water to flow in a prescribed direction into the dish causing the water to circulate in the dish.

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